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Service Information Bulletin

SUBJECT	DATE
SPN 168 (CPC3) (GHG17)	July 2017

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0191	GHG17 HD DD	SPN 168/FMI 5 - GHG17	This is a new section.

DiagnosticLink users: Please update the troubleshooting guides in DiagnosticLink with this newest version. To update the tool troubleshooting guide, open DiagnosticLink and from the Help – Troubleshooting Guides menu, select the appropriate troubleshooting manual, then click Update.



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2 SPN 168/FMI 5 - GHG17

Battery Voltage Open Circuit Pin 5/9

Table 1.

SPN 168/FMI 5	
Description	Common Powertrain Controller (CPC) Battery Voltage Open, Connector 5, Pin 9
Monitored Parameter	CPC Battery Voltage
Typical Enabling Conditions	Always Enabled
Monitor Sequence	None
Execution Frequency	Always Enabled
Typical Duration	10 Seconds
Dash Lamps	CEL
Engine Reaction	None
Verification	Engine Running



WARNING: PERSONAL INJURY

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

- Always start and operate an engine in a well ventilated area.
- If operating an engine in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system or emission control system.



WARNING: PERSONAL INJURY

To avoid injury before starting and running the engine, ensure the vehicle is parked on a level surface, parking brake is set, and the wheels are blocked.



WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

Check as follows:

NOTE: This fault indicates the CPC3evo has detected no/low voltage on pin 9 of the CPC3 connector #5.

1. Connect DiagnosticLink[®] 8.05 SP1 or higher.
2. Turn the ignition ON (key ON, engine OFF). Is SPN 168/FMI 5 active?
 - a. Yes; Go to step 3.
 - b. No; clear all faults. If fault remains inactive, release vehicle. If fault becomes active, Go to step 3.
3. Turn the ignition OFF.
4. Disconnect CPC3evo connector #5.
5. Inspect harness connector for bent, spread or corroded pins. Is pin damage found?
 - a. Yes; repair as necessary.
 - b. No; Go to step 6.
6. Turn the ignition ON (key ON, engine OFF).

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7. Measure the voltage between pin 9 of the CPC3 connector #5 and ground. Is voltage reading within .25v of battery voltage?
 - a. Yes; replace the CPC3.
 - b. No; restore battery voltage to pin 9. Refer to EZ wiring schematics module 149, 285 and 164 for further information.